

Name: _____

p1029: Box multiplication of linear binomials (v7)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	$6x$	3	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
4	$24x$	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(3x + 4)$ and $(5x + 9)$.

*	$3x$	4	
$5x$	$15x^2$	$20x$	
9	$27x$	36	

ANSWER: $15x^2 + 47x + 36$

Question 2

Use the box method to multiply $(8x + 3)$ and $(7x - 4)$.

*	$8x$	3
$7x$	$56x^2$	$21x$
-4	$-32x$	-12

ANSWER: $56x^2 - 11x - 12$

Question 3

Use the box method to multiply $(-9x + 4)$ and $(3x + 5)$.

*	$-9x$	4
$3x$	$-27x^2$	$12x$
5	$-45x$	20

ANSWER: $-27x^2 - 33x + 20$